

Notice of Allowability

Application No.

10/791,945

Applicant(s)

CHANG ET AL.

Examiner

Art Unit

Juan A. Torres

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment After Final filed on 10/31/2007.
2. ☒ The allowed claim(s) is/are 2-15 and 17-33 (renumbered 1-31).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bruce E. Garlick on 11/1/2007.

The application has been amended as follows:

- a) in page 11, line 11 the recitation "Hands Fee I/F 338" is changed to "Hands Free I/F 338"
- b) In line 9 of claim 32 the recitation "receiver; and" is changed to "receiver;"
- c) In line 9 of claim 33 the recitation "processor" is changed to "processor; and"

Allowable Subject Matter

Claims 2-15 and 17-33 (renumbered 1-31) are allowed.

The following is an examiner's statement of reasons for allowance: claims 2-15 and 17-33 (renumbered 1-31) are allowed because a comprehensive search of prior art failed to teach, either alone or in combination, a method for performing Incremental Redundancy (IR) operations in a wireless receiver comprising receiving an analog signal corresponding to a data block, sampling the analog signal to produce samples, equalizing the samples to produce soft decision bits of the data block, configuring, by a system processor of the wireless receiver, a plurality of IR processing module registers, initiating, by the system processor of the wireless receiver, operation of an IR

Art Unit: 2611

processing module of the wireless receiver, and accessing, by the IR processing module, the plurality of IR processing module registers, and performing, by the IR processing module, IR operations on the soft decision bits of the data block in an attempt to correctly decode the data block; and a system for implementing Incremental Redundancy (IR) operations in a wireless receiver comprising a baseband processor that is operable to receive analog signals corresponding to a data block and to produce samples of the analog signals, an equalizer that is operable to receive the samples from the baseband processor, to equalize the samples, and to produce soft decision bits of the data block, a system processor that is operable to receive the soft decision bits of the data block, a plurality of IR processing module registers communicatively coupled to the system processor, an IR processing module communicatively coupled to the system processor and to the plurality of IR processing module registers, wherein the system processor is operable to configure the plurality of IR processing module registers and to initiate operation of the IR processing module of the wireless receiver, and wherein the IR processing module is operable to access the plurality of IR processing module registers, to receive the soft decision bits of the data block, and to perform IR operations on the soft decision bits of the data block in an attempt to correctly decode the data block, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is 571-272-3119. The examiner can normally be reached on 8-6 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres
10-31-2007


MOHAMMED GHAYOUR
SUPERVISORY PATENT EXAMINER